

# 50-year-olds in Gothenburg - Study of men born in 1933, 1983 study

**SND-ID:** snd0010-12.

**Is part of collection at SND:** [Swedish Cohort Consortium \(Cohorts.se\)](https://cohorts.se/)

## **Creator/Principal investigator(s)**

Annika Rosengren - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

Per-Olof Hansson - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

Gösta Tibblin

Lars Wilhelmsen - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

Henry Eriksson - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

Kurt Svärdsudd - Uppsala University, Department of Public Health and Caring Sciences

Catarina Welin - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

Lennart Welin - University of Gothenburg, Department of Emergency and Cardiovascular Medicine

## **Research principal**

[University of Gothenburg](https://www.gu.se/) - Department of Emergency and Cardiovascular Medicine

## **Description**

Starting in 1963 and with 10-year intervals, five population samples of men aged 50 and living in the city of Gothenburg, Sweden, were examined with respect to cardiovascular risk factors. In 1963, 973 men were invited. 855 of these took part in the study (88%). Clinical examinations were conducted at baseline and thereafter at 54 (1967), 60 (1973), 67 (1980), 75 (1988) and 80 years of age (1993). At every examination a number of questionnaires were filled in. For the 1973 study, 10% of all men born in 1923 were invited, providing a sample of 292, of which 226 (77%) participated. For the 1983 and 1993 studies, a random sample of half of all men in the city born in 1933 and 1943 were invited; 776 (76%) and 798 (55%), respectively, participated. In 2003 random third of all men (n = 993) and women (n = 994) born in 1953 were invited. Participation rate was 60% among the men and 67% among the women. The study of men born in 1913 and their successors, men born in 1923, 1933, 1943 and 1953 provide opportunities to explore how living conditions have changed over four decades and what health effects these changes have had. From the start of the 60th century, the data have given opportunities to explore trends, as well as in cross-section as longitudinally. The studies have generated 12 thesis and more than 400 scientific papers.

Purpose:

To investigate coronary risk factors and the development of coronary disease in a group of Swedish urban men in the same age: 50 years. To the sampling in 2003 also women were invited.

## **Data contains personal data**

No

## **Language**

[Swedish](#)

**Unit of analysis**

[Individual](#)

**Time Method**

[Longitudinal: Cohort/Event-based](#)

**Sampling procedure**

[Probability: Systematic random](#)

Systematic representative sample based on birth date. In 1963, all men born in 1913 on dates divisible by three were invited.

**Time period(s) investigated**

1963 – 2004

**Variables**

171

**Number of individuals/objects**

775

**Response rate/participation rate**

76%

**Data format / data structure**

[Numeric](#)

**Data collection 1**

- Time period(s) for data collection: 2003 – 2012
- Source of the data: Registers/Records/Accounts: Medical/Clinical, Population group, Biological samples, Registers/Records/Accounts

**Geographic spread**

Geographic location: [Sweden](#)

Geographic description: Municipality of Gothenburg

**Lowest geographic unit**

Municipality

**Responsible department/unit**

Department of Emergency and Cardiovascular Medicine

**Research area**

[Medical and health sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Clinical medicine](#) (Standard för svensk indelning av forskningsämnen 2011)

[Cardiac and cardiovascular systems](#) (Standard för svensk indelning av forskningsämnen 2011)

[Public health, global health, social medicine and epidemiology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Health](#) (CESSDA Topic Classification)

## Keywords

[Physical examination](#), [Blood pressure](#), [Body composition](#), [Dyspnea](#), [Hearing](#), [Life style](#), [Electrocardiography](#), [Heart failure](#), [Longitudinal studies](#), [Prospective studies](#), [Exercise](#), [Population surveillance](#), [Socioeconomic factors](#), [Anemia](#), [Body mass index](#), [Metabolism](#), [Risk factors](#), [Middle aged](#), [Overweight](#), [Mortality](#), [Myocardial infarction](#), [Neoplasms](#), [Stroke](#), [Diet](#), [Alcohol drinking](#), [Atherosclerosis](#), [Blood coagulation](#), [Blood glucose](#), [Bronchitis, chronic](#), [Diabetes mellitus](#), [Cause of death](#), [Epidemiology](#), [Obesity](#), [Lipids](#), [Public health](#), [Genetics](#), [Cardiovascular diseases](#), [Health](#), [Hypertension](#), [Insulin](#), [Coffee](#), [Cholesterol](#), [Coronary disease](#), [Body height](#), [Body weight](#), [Angina pectoris](#), [Lipoproteins](#), [Pulmonary embolism](#), [Lung diseases](#), [Mental health](#), [Smoking](#), [Disease](#), [Insurance, health](#), [Morbidity](#), [Delivery of health care](#), [Spirometry](#), [Stress, psychological](#), [Sleep wake disorders](#), [Triglycerides](#), [Heredity](#), [Fundus oculi](#), [Swedish cohort consortium \(scc\)](#), [Cohorts.se](#)

## Publications

Rosengren A, Dotevall A, Eriksson H, Wilhelmsen L. Optimal risk factors in the population: prognosis, prevalence, and secular trends; data from Goteborg population studies. Eur Heart J 2001;22:136-44.

Rosengren A, Wilhelmsen L, Orth-Gomer K. Coronary disease in relation to social support and social class in Swedish men. A 15 year follow-up in the study of men born in 1933. Eur Heart J 2004;25:56-63.

Wilhelmsen L, Wedel H, Tibblin G. Multivariate analysis of risk factors for coronary heart disease. Circulation 1973;48:950-958.

Welin L, Wilhelmsen L, Svärdsudd K, Larsson B, Tibblin G. Increasing Mortality from Coronary Heart Disease among Males in Sweden. Cardiology 1985;72:75-80.

Rosengren A, Orth-Gomér K, Wedel H, Wilhelmsen L. Stressful life events, social support, and mortality in men born in 1933. Br Med J 1993;307:1102-05.

Svärdsudd K. High Blood Pressure. A longitudinal population study of men born in 1913 with special reference to development and consequences for health. Thesis. Göteborg, Sweden, 1978.

Caidahl, Kenneth. Relation between cardiac dyspnea and left ventricular function : a non-invasive study of 67-year-old men. Thesis, University of Gothenburg, 1987.

Larsson B, Bengtsson C, Björntorp P, Lapidus L, Sjöström L, Svärdsudd K, Tibblin G, Wedel H, Welin L, Wilhelmsen L. Is abdominal body fat distribution a major explanation for the sex difference in the incidence of myocardial infarction? The study of men born in 1913 and the study of women, Göteborg, Sweden. Am J Epidemiol. 1992 Feb 1;135(3):266-73.

Rosengren A, Eriksson H, Larsson B, Svärdsudd K, Tibblin G, Welin L, Wilhelmsen L. Secular changes in cardiovascular risk factors over 30 years in Swedish men aged 50: the study of men born in 1913, 1923, 1933 and 1943. J Intern Med. 2000 Jan;247(1):111-8.

Wilhelmsen L, Svärdsudd K, Eriksson H, Rosengren A, Hansson PO, Welin C, Odén A, Welin L. Factors associated with reaching 90 years of age: a study of men born in 1913 in Gothenburg, Sweden. J Intern Med. 2011 Apr;269(4):441-51.

Rosengren A, Eriksson H, Hansson PO, Svärdsudd K, Wilhelmsen L, Johansson S, Welin C, Welin L. Obesity and trends in cardiovascular risk factors over 40 years in Swedish men aged 50. J Intern Med. 2009 Sep;266(3):268-76. Epub 2009 Apr 7.

Wilhelmsen L, Welin L, Svärdsudd K, Wedel H, Eriksson H, Hansson PO, Rosengren A. Secular changes in cardiovascular risk factors and attack rate of myocardial infarction among men aged 50 in Gothenburg, Sweden. Accurate prediction using risk models. J Intern Med. 2008 Jun;263(6):636-43. Epub 2008 Feb 20.

Hjortzberg-Nordlund, Hans. Abuse of alcohol in middle-aged men in Göteborg : a social-psychiatric investigation. Thesis, University of Gothenburg, 1968.

Welin, Lennart. Family study on ischaemic heart disease and its risk factors: the study of men born in 1913 and 1923. Thesis, University of Gothenburg, 1978.

Svärdsudd, Kurt. High blood pressure : a longitudinal population study of men born in 1913, with special reference to development and consequences for health. Thesis, University of Gothenburg, 1978.

Larsson, Bo. Obesity: a population study of men, with special reference to development and consequences for the health. Thesis, University of Gothenburg, 1978.

Silverbåge Carlsson, Gudrun. Epidemiology of injuries with special regard to head injuries : a study of three male populations. Thesis, University of Gothenburg, 1986.

Eriksson, Henry. Heart failure : an epidemiological study of prevalence, incidence, risk factors and consequences in samples from the general population. Thesis, University of Gothenburg, 1987.

Ohlson, Lars-Olof. Diabetes mellitus in the Study of men born in 1913 and 1923. Thesis, University of Gothenburg, 1987.

Rudin, Rolf. Middle ear disease : a clinical and epidemiological study of otitis media and related factors in samples from the general population. Thesis, University of Gothenburg, 1987.

Hansson, Per-Olof. Venous thromboembolism. Epidemiological and clinical aspects of deep vein thrombosis and pulmonary embolism. Thesis, University of Gothenburg, 1999.

Welin L, Larsson B, Svärdsudd K, Wilhelmsen L, Tibblin G. Why is the incidence of ischaemic heart disease in Sweden increasing?: study of men born in 1913 and 1923. Lancet. 1983 May 14;1(8333):1087-9.

Hansson PO, Eriksson H, Welin L, Svärdsudd K, Wilhelmsen L. Smoking and abdominal obesity: risk factors for venous thromboembolism among middle-aged men: "the study of men born in 1913". Arch Intern Med. 1999 Sep 13;159(16):1886-90.

[Swepub](#) | [Institutional Repository](#)

Johansson S, Wilhelmsen L, Welin C, Eriksson H, Welin L, Rosengren A. Obesity, smoking and secular trends in cardiovascular risk factors in middle-aged women: data from population studies in Göteborg from 1980 to 2003. J Intern Med. 2010 Dec;268(6):594-603

Blomstrand A, Björkelund C, Arai N, Lissner L, Bengtsson C. Effects of leisure-time physical activity on well-being among women: a 32-year perspective. Scand J Public Health 2009;37:706-12.

Schult A, Eriksson H, Wallerstedt S, Kaczynski J. Overweight and hypertriglyceridemia are risk factors for liver cirrhosis in middle-aged Swedish men. Scand J Gastroenterol. 2011 Jun 46; (6):738-44.

Wilhelmsen L, Tibblin G. Tobacco smoking in fifty-year-old men. I. Respiratory symptoms and ventilatory function tests. Scand J Respir Dis 1966;47(2):121-30

Tibblin G, Bergentz SE, Bjure J, Wilhelmsen L. Hematocrit, plasma protein, plasma volume, and viscosity in early hypertensive disease. Am Heart J 1966;72:165-76.

Tibblin G. High blood pressure in men aged 50. A population study of men born in 1913. Acta Med Scand Suppl 1967;470:1-84.

Tibblin G, Vikgren P. Urine osmolality in a population study of hypertension. Bull World Health Organ 1964;31:345-8.

Tibblin G, Aurell E, Hjortzberg-Nordlund H, Paulin S, Risholm L, Sanne H, Wilhelmsen L, Werkoe L. A general health-examination of a random sample of 50-year-old men in Goeteborg. Acta Med Scand 1965;177:739-49.

Tibblin G. A population study of 50-year-old men. An analysis of the non-participation group. Acta Med Scand 1965;178:453-9.

Aurell E, Tibblin G. Hypertensive eye-ground changes in a Swedish population of middle-aged men. Acta Ophthalmol (Copenh) 1965;43:355-61.

Nilsson LA, Ryttinger L, Tibblin G. Distribution of the ABO, MN, Rh, Duffy and Kell blood groups in a random sample of Swedish men aged fifty. Acta Pathol Microbiol Scand 1966;68(1):117-22.

Tibblin G. [Ulcers. 3. The frequency of ulcers among 50-year-old men]. Lakartidningen 1966;63(50):4825-6.

Aurell E, Hjortzberg-Nordlund H, Tibblin G. [Obesity in 50-year old men: somatic aspects]. Lakartidningen 1966;63(6):520-5.

Tibblin G. [Patient material and population studies. Problems of methodology]. Lakartidningen 1966;63:2267-71.

Hallberg L, Tibblin G. [Obesity and overweight: presentation of 2 population studies]. Lakartidningen 1966;63:516-9.

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

### **Accessibility level**

Access to data through an external actor  
Access to data is restricted

### **Contacts for questions about the data**

Annika Rosengren

[annika.rosengren@hjl.gu.se](mailto:annika.rosengren@hjl.gu.se)

Per-Olof Hansson

[per-olof.hansson@vgregion.se](mailto:per-olof.hansson@vgregion.se)

### **Related research data in SND's catalogue**

[50-year-olds in Gothenburg - Study of men born in 1913](#)

[The primary prevention study 1970-1973](#)

[50-year-olds in Gothenburg - Study of men born in 1923](#)

[50-year-olds in Gothenburg - Study of men born in 1933](#)

[50-year-olds in Gothenburg - Study of Sons to Men born in 1913](#)

[50-year-olds in Gothenburg - Study of men born in 1943](#)

[50-year-olds in Gothenburg - Study of men born in 1953](#)

[50-year-olds in Gothenburg - Study of men born in 1933, 1991 study](#)

[The BEDA survey 1980](#)

[BEDA-survey 1997](#)

[The MONICA survey in Gothenburg](#)

[The MONICA survey in Gothenburg 1990](#)

[The MONICA survey in Gothenburg 1995](#)

[50-year-olds in Gothenburg - Study of women born in 1953](#)

[50-year-olds in Gothenburg - Study of men born in 1913, 1963 study](#)

[50-year-olds in Gothenburg - Study of men born in 1913, 1967 study](#)

[50-year-olds in Gothenburg - Study of men born in 1913 and their sons and men born in 1923, 1973 study](#)

[50-year-olds in Gothenburg - Study of men born in 1913 and men born in 1923, 1988 study](#)

[50-year-olds in Gothenburg - Study of men born in 1913 and their sons, and men born in 1923 and 1943, 1993 study](#)

[50-year-olds in Gothenburg - Study of Men born in 1943 and Men and Women born in 1953, 2004 survey](#)

[50-year-olds in Gothenburg - Study of men born in 1913 and men born in 1923, 1980 study](#)

[The primary prevention study 1974-1977](#)

[The primary prevention study 1980-1983](#)

### **Is part of collection at SND**

[Swedish Cohort Consortium \(Cohorts.se\)](#)

### **Download metadata**

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CLS\)](#)